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INVESTIGATION OF ANTARCTIC CRUST AND UPPER MANTLE
USING MAGSAT AND OTHER GEOPHYSICAL DATA

C.R. Bentley - Principal Investigator

During the past month since our last tardy progress report we have been working to develop a spectral analysis technique to determine the depth to the Curie Isotherm from MAGSAT data over Antarctica. This work is still in its infancy; however, the analysis of the power spectra of a number of MAGSAT passes over Antarctica has indicated on the average two power maxima for each flight pass, one with spatial wavelength of approximately 2000 km and the other with a wavelength of approximately 700 km. We have not yet determined whether these spectral peaks are geological or mathematical in origin.

In the coming three months we will refine the magnetic anomaly map generating procedure and continue to try to develop spectral analysis techniques for magnetic anomaly interpretation.

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